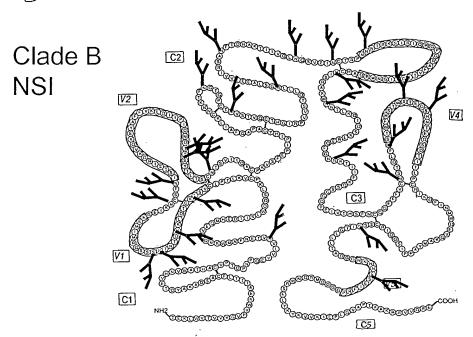
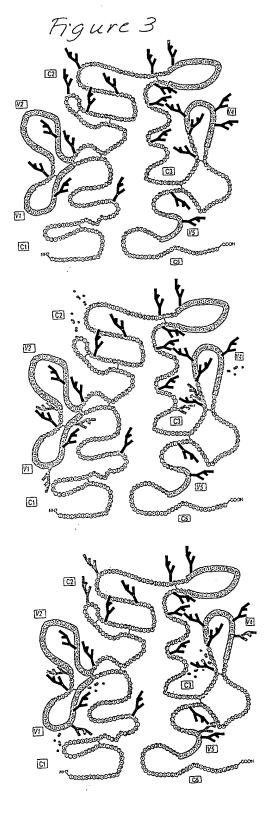
8

Figure 2





## **Early**

21 original sites

### Mic

- 5 sites are added
- 3 are removed

## Late

- 4 sites are added
- Of the 5 sites added on the mid virus, 4 are now removed

# Figure 4

#### A141 alignment of V1/V2

SF162 A141-35-1 A141-35-2 A141-35-3 A141-35-4 A141-35-11 A141-35-12 A141-35-12 A141-35-13 A141-35-14	CVTLHCTNLK NATNTKSSN- WKEMDRGEIK NCSFKVTTSI RNKMQKEYAL FYKLDVVPID NDNTSYKL INC
SF162 A141-56-1	CVTLHCTNLK NATNTKSSN- WKEMDRGEIK NCSFKVTTSI RNKMQKEYAL FYKLDVVPID NDMTSYKL INC
A141-56-2	
A141-56-3	
A141-56-4	······································
A141-56-5	
A141-56-10 A141-56-11	D
A141-56-12	
A141-56-13	
A141-56-14	IT
SF162	CVTLHCTNLK MATNTKSSN- WKEMDRGEIK MCSFKVTTSI RNKMQKEYAL FYKLDVVPID NCMTSYKL INC
A141-84-1	
A141-84-2	
A141-84-3	N .D.R   N .S. EGKVE   N D.V
A141-84-4 A141-84-5	N. D.R. N. S. EGKVE. NI. D.V
A141-84-6	
A141-84-7	M   t   t   t
A141-84-8	ND.R
A141-84-9	N. D.R J N. S. EGKVE J NI D.V
SF162 A141-117-1	CVTLHCTNLK MATNTKSSN- WKEMDRGEIK MCSFKVTTSI RNKMQKEYAL FYKLDVVPID NUNTSYKL INC
A141-117-2	N .D.R .  N .S. EGK.E .  N D.V
A141-117-3	N. D.R N. S. EGK.E NI D.V TS.R. S.
A141-117-4 A141-117-5	
A141-117-6	
A141-117-7	N. D.RN.S. EGK.E
A141-117-8	
A141-117-9 A141-117-10	
A141-117-11	s.KDDMSG RMI.EK
A141-117-12	N D. R N S. EGK.E
A141-117-13	s.Kd DM. sg RMI.EK NISD.VFI DRs.
A141-117-14	JD
SF162	CVTLHCTNLK NATNTKSSN- WKEMDRGEIK NCSFKVTTSI RNKMQKEYAL FYKLDVVPID NUNTSYKL INC
A141-215-1	l.lpl.lN
A141-215-2	
A141-215-3	D. N. N.
A141-215-5 A141-215-12	
A141-215-13	β [, Π.Τ G ]Ν
A141-215-14	i
A141-215-15	;

#### Al41 alignment of V4

SF162 A141-35-1 A141-35-2 A141-35-3 A141-35-4 A141-35-10 A141-35-11 A141-35-12 A141-35-13 A141-35-14		STWN	TIGERNT	.R
SF162 A141-56-1 A141-56-2 A141-56-3 A141-56-4 A141-56-5 A141-56-10 A141-56-11 A141-56-12 A141-56-13 A141-56-14	11 11	STWAN-	TIGENT	
SF162 A141-84-1 A141-84-2 A141-84-3 A141-84-4 A141-84-5 A141-84-6 A141-84-7 A141-84-8 A141-84-9	ST	WMFN D WMFN D WMFN D WMFN D WMFN D	KES D.	E N
SF162 A141-117-1 A141-117-2 A141-117-3 A141-117-4 A141-117-6 A141-117-7 A141-117-8 A141-117-10 A141-117-11 A141-117-11 A141-117-12 A141-117-13 A141-117-13	ST ST	WMFN D S S S S S S S S S S S S S S S S S S	KES D KES D	E N E SD E SD
SF162 A141-215-1 A141-215-2 A141-215-3 A141-215-12 A141-215-13 A141-215-14 A141-215-14	CASTQLFA	11		E